

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A trunnion assembly for a gun comprising:
 - a trunnion shaft having a first longitudinal axis,
 - a housing defining a bore for rotatably and concentrically receiving the trunnion shaft, the bore having a second longitudinal axis, and
 - a bearing assembly located inside the housing and surrounding the trunnion shaft,
~~the trunnion assembly according to the present invention being characterised in that the longitudinal axis of the shaft is-being~~ movable out of alignment with the longitudinal axis of the bore when the shaft is biased in a direction transverse the said first and second longitudinal axes by ~~the an~~ impetus caused by ~~the-a~~ rearward movement of the gun when the gun is fired,
~~and in that the bearing assembly allows-allowing~~ rotation of the shaft in the bore ~~whilst-while~~ also allowing ~~the said~~ movement of the first longitudinal axis of the shaft out of alignment with the second longitudinal axis of the bore, and
~~in that the bearing assembly further includes~~ being provided with a re-aligning means for re-aligning the first and second longitudinal axes of the shaft and the bore, after the ~~said movement out of alignment~~ first longitudinal axis of the shaft moves out of alignment with the second longitudinal axis of the bore, the re-aligning means including a ball bearing assembly having at least one cam ring disposed between a resiliently compressible O-ring and a ball bearing.

2. (Currently Amended) A The trunnion assembly according to claim 1, wherein the ~~re-alignment means~~ is in the form of a ball bearing assembly is also located inside of the bore of the housing and surrounds the trunnion shaft, the cam ring is a first cam ring and the O-ring is a first O-ring, and wherein the ball-bearing assembly includes a second cam ring disposed between a second resiliently compressible O-ring and the ball bearing a central ball bearing and two resiliently compressible O-rings disposed on opposite sides of the ball bearing, and wherein a cam ring is disposed between each O-ring and the ball bearing, each cam ring having a cam surface for abutting an outer surface of the ball bearing, the arrangement being such that when the trunnion shaft moves out of concentric alignment with the bore, one of the cam rings moves towards its O-ring to compress the same, the arrangement being further such that the compressed O-ring expands after the biasing force has been neutralised to move the shaft back into concentric alignment with the bore.

3. (Currently Amended) A The trunnion assembly according to claim 2, wherein the O-rings are each located in an O-ring retainer.

4. (Currently Amended) A The trunnion assembly according to claim 1 wherein the bearing assembly includes a toroidal-type roller bearing assembly.

5-7. (Cancelled)

8. (New) The trunnion assembly according to claim 2, the ball bearing is disposed centrally between the first and second cam rings, the first and second O-rings are disposed on opposite sides of the ball bearing, and the first and second cam rings are disposed between the ball bearing and the first and second O-rings, respectively.

9. (New) The trunnion assembly according to claim 3, wherein each cam ring defines a cam surface for abutting an outer surface of the ball-bearing, and wherein, when the first longitudinal axis of the shaft moves out of alignment with the second longitudinal axis of the bore, one of the cam rings moves towards its O-ring to compress the O-ring, the compressed O-ring expanding after a biasing force has been neutralised to move the first longitudinal axis of the shaft back into alignment with the second longitudinal axis of the bore.

10. (New) The trunnion assembly according to claim 1, wherein the cam ring has a cam surface that abuts an outer surface of the ball bearing, so as to aid in the re-alignment of the first and second longitudinal axes.

11. (New) The trunnion assembly according to claim 10, wherein the cam surface is rounded to aid in the re-alignment of the first and second longitudinal axes.